

W6IFE Newsletter

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The **4 April 1996** meeting of the SBMS will be a tune up part for 10 Ghz WBFM rigs. April is also SBMS Officer ELECTION month, so be there to cast your vote. SBMS meets at the American Legion Hall 1024 Main Street Corona, CA at 1930 local time.

Last Meeting had Chuck, WA6EXV talking about the Smith Chart using a computer with the Puff design software and an early version of Touchstone software. Thanks Chuck. Dave, WA6OWD was presented the SBMS sponsored ARRL plaque for top score in the ARRL 10 Ghz Contest in 1995. The investigation into insurance for the Society found it to be over the amount we have in the treasury during the year. Dave, WA6OWD has taken Society insurance on as a task for the coming year. It was proposed that the July 4th meeting be delayed / replaced with a picnic in a park on maybe 6 July-- this event needs a leader! Chip, N6CA will write a letter on the behalf of the Society to the ARRL Contest committee addressing use of commercial equipment / stations, changes/ clarification to contest rules, and suggestions on maybe placing more microwave information in the new ham column since this is where a number of the no-code people move to. George, K6MBL has improved his ability to copy photographic images on to computer/ video media and is looking for anyone else that has pictures of microwave happenings they would like to loan for insertion in to the collection. 25 people present.

Welcome to visitors and new members. **Cliff Lundquist, W6NSN** of Riverside; **Harold Scott, WA6EAT** of Pasadena; and new member **Mike Cramer, KC6YHM** of Fullerton. WELCOME!!!

Cliff is a former coworker of Society leader Tommy Thompson, W6IFE/ sk.

Society Officer Nominations for the 1996-97 period

The following were nominated for office: President, Frank Kelly, WB6CWN; VP, Dick Bremmer, WB6DNX and Joe Saddler, WA6PAZ; Corresponding Secretary, Larry Johnston, K6HLH; Treasurer, George Tillitson, K6MBL; Recording Secretary, Phil Lee, W6HCC. No one was nominated for the Newsletter Editor. Nominations will be open at the April meeting preceding the election.

Scheduling

2 May Frank, WB6CWN ARRL Design software

3-5 May West Coast VHF-Microwave Conference, Gateway Plaza 14299 Firestone Blvd.

La Mirada, CA sponsored by Southern California Six Meter Club

11 May 1296/2304 Mhz Spring Sprint

6 June Chuck, WA6EXV Noise figure Measurement session

8-10 June VHF QSO Party

4 July- moved to??? and picnic where??? lead by who???

1 Aug. George, K6MBL scanned and copies of SBMS historical images.

Activity reported 3 March 1996

Eugene, WA6YOJ brought in a railroad speed sensing radar to show.

George, K6GMV no microwave activity

Ed, K6ODV has been working on a 1296 Mhz power amplifier.

Chip, N6CA has been remounting radios.

Larry, K6HLH no activity.

Mike, KC6YHM went to the Western States Weak Signal Society convention.

Jim, K6ML is debugging a 1.2 Ghz ATV amplifier

John, KC6YVS is working with a satellite receiver.

Al, KF6YM has been doing some equipment maintenance.

Scott, WA6EAT works at TV station KTLA with lots of power in amplifiers.

Steve, NJ6J is working on a 10 Ghz gunnplexer and a Radio Shack audio record chip for possible beacon use.

Bob, W6SYA is working with one of the RCA offset feed 18² dish and gunnplexer per N1BWT Dec. 95 p14 QEX articles. Address for MCM Electronics is 650 Congress Park Drive, Centerville, OH 45459 ph 800-543-4330. 18² steel dish pn is 221196 or 221197; mounting bracket is pn 221199; SMC dish pn is 221198; and mounting bracket is pn 221200. Ref.; March 95 QEX p24.

Ken, WB6DTA no activity.

Dick, K6HIJ no activity.

Stu, K6YAZ has been adjusting antennas.

Dave, WB6OVZ has a 10 Ghz WBFM rig and has built a power meter.

Cliff, W6NSN is visiting.

Ed, W6OYJ has a 10 Ghz Qualcomm rig under construction, and had sent ATV over the SD 10 Ghz ³repeater². There is a good shot from the repeater to Palos Verdes.

George, K6MBL now has some 200 pictures in his computer files of microwave adventures.

Dick, WB6DNX is working on a connector for his beacon to go back on Santiago. There is rumor of another beacon there on 10.240-260 GHz.

Bill, WA6QYR has been working with his DEMW weak signal source and the WA6EXV GPS software.

Chuck, WA6EXV has been working on writing software for his boat GPS navigation equipment and making contacts with W6HCC on 2.3 GHz.

Phil, W6HCC has been working on his 2.3 Ghz rig in the form of a filter via N6CA design. Building it out of aluminum is easiest to tune and the PC board version is poor to tune up.

Dave, WA6OWD sent some comments to the ARRL and FCC on the spread spectrum issues indicating need to go along with local band plans. Received a FAX from Brian, KD6LI on 24 Ghz equipment. Added some information to the SBMS time line article for 1995. Did some 3.4 Ghz rig construction. Sent in 2 VUCC applications. **Passed his EXTRA class license.**

Eric, KD6GLP has done some consulting. He is going to use a Ramsey 30 Mhz radio kit for WBFM IF receiver in his 10 Ghz gunnplexer rig. Many other use similar IF radios on WBFM.

Joe, WA6PAZ was not at the meeting, but was off talking at the Long Beach ham club about microwave.

SBMS dinner at the Cask and Clever in Rancho Cucamonga last month had 10 people in attendance. Joe, WA6PAZ and xyl; George, K6GMV and xyl; Dick, WB6DNX and xyl; Bill WA6QYR and Judy KC6UTF, Dave, WA6OWD, and Stu K6YAZ. The food was good as was the conversation.

Things in QST- March issue had the results of the 95 10 Ghz contest and numerous members calls appeared. April issue has Chuck, WA6EXV and Phil, W6HCC with their 10 grids on 2.3, 3.4 and 5.7 Ghz and Chuck with 35 grids from Keller Pk and 20 grids from Heaps Pk. April ³The World Above 50 Mhz² has the world DX records list.

SETI League will kick off the Project Argus survey of space on Earth Day April 21, 1996 with a special event station, WA2IKL at 1600 UTC on the first clear frequency above 14.204 Mhz (one percent of the hydrogen frequency). Apparently Dr. Paul Shuch, N6TX puts on a good show when talking to groups about SETI. He does poetry, writes songs and plays the guitar, in addition to being microwave engineer.

Wants and Gots for Sale

Wants

40.7 Mhz 3rd OT crystal Steve NJ6J 818-354-8045

24 Ghz mixer Dick WB6DNX 714-529-2800

100 w 47 Ghz SSB amp Chip, N6CA 213-539-5395

Gots

Kenwood TS440SAT w/ ant tuner & cw; filter new \$750 Stu K6YAZ 818-887-9144

SBMS Microwave Internet Reflector - Tue, 19 Mar 1996

Hello everyone! If you received this message, you have automatically been added to the NEW San Bernardino Microwave Society mail list (reflector). By sending an e-mail message to "sbms@ham-radio.com", all of the individuals on the list will receive a copy of what you sent. Please send **ONLY** information that is pertinent to

Microwave activity, contesting, news, technical info, etc. that is of interest to the ENTIRE group. Please make the information concise and as SHORT as necessary to convey the information. Multiple page documents under most circumstances is not acceptable. There are other places to post that kind of info, namely: The NEW San Bernardino Microwave Society Home Page located at "<http://www.ham-radio.com/sbms/sbms.html>"!! Please take a look at it and provide any comments or suggestions to me at "wa6cgr@ham-radio.com". If you would like to be removed from this list or if you would like to be added to the list, please send an e-mail to "sbms-request@ham-radio.com" and provide your name and e-mail address and whether you would like to be added or removed. Thanks and let me know what you think!

73's

Dave - WA6CGR

[I looked at it and its great! Check the "[Ham Pages](#)" too. Ed.]

10 GHz Data

I am in the process of compiling a database with all of the 10 GHz beacons. I would also like to start one with all of the active operators as well. Included in this list I will include; the location Grid and / or lat. and long, City name, Power ERP, Antenna height and type, Frequency, ID and Type of Mode, duration of operation (i.e. 24 hrs, weekends...). If you can provide any information or suggestion please reply.

TNX es 73 de Larry Lipitz KG2BB Send to lipitz@harman.com Thanks to Jack n6xq@clubnet.net

San Diego Ten Ghz Beacon Information

The following information applies to a pair of beacons and a unique on-frequency repeater with 10 MHz bandwidth, located on Mt. San Miguel in San Diego County, California. I was asked by Kerry Banke, N6IZW to submit the info.

Frequency	Call	Mode	Ant. Pol.	Location	Gridsq	County	PWR	Ant/Aim	/Elev	/State	ERP
10248	N6IZW	WBFM	Horiz.	Mt. Miguel	DM12MQ	SDGO	0.1W	Omni	2565 ft MSL	/CA	
10368.028	WB6IGP	NB/CW	Horiz.	Mt. Miguel	DM12MQ	SDGO	1.0W	Omni	2565 ft MSL	/CA	
10368(+/- 5)	WB6IGP	Linear	Horiz.	Mt. Miguel	DM12MQ	SDGO	1.0W	Omni	2565 ft MSL	/CA	All mode repeater

Duty Cycle (Operating Schedule) for these systems is 24 hours.

So far the repeater has been used with CW, SSB, NBFM, and Amplitude-Modulated ATV modes. Simultaneous SSB QSOs on different frequencies within the 10 Mhz bandpass have been carried out. A presentation on it, and

publication of initial results will be made by N6IZW at the May 1996 Southern Calif. VHF/UHF Conference in La Mirada.

Thanks- Ed Munn W6OYJ 75353.1255@compuserve.com (619) 453-4563 23 Mar 96

Beacon Back On --Mon, 11 Mar 1996

Hi Bill, I thought I would let you know that my x band beacon is back on. It transmits around 10220 MHz WBFM with mcw modulation. 100 mW into a 13 dB horn pointed toward LA. You may want to include the info in the newsletter to inform people.

I tried this weekend with NJ6J and W6SYA but no luck. I still have a few chaparral 11 GHz feeds left that go for \$13 plus any shipping. My phone number for that is (619) 224-8879 or e-mail.

73 Jack N6XQ, n6xq@clubnet.net

ARRL PACIFIC DIVISION UPDATE - APRIL, 1996

by Brad Wyatt, K6WR, Director, Pacific Division, ARRL

18400 Overlook Rd. #5, Los Gatos CA 95030-5850; (408) 395-2501 (Phone and FAX)

Packet: K6WR@N0ARY.#NOCAL.CA Internet: K6WR@arrl.org

FCC Reports on Electromagnetic Fields at Ham Stations: -

The FCC has issued a new report of RF field measurements at Amateur Radio stations and will use it to help decide how to implement newly revised guidelines for human exposure to RF energy. The report, FCC/OET ASD-9601, is available from the National Technical Information Service, 800-553-6847, purchase number PB-96-145016. See April QST p. 83 for more details and additional ordering information.

ARRL Files to Protect Allocation at 76-77 GHz: -

The ARRL says "NO" to limiting the 76-77 GHz band to vehicle radar systems. In comments on an FCC Notice of Proposed Rule Making to temporarily remove hams from the band, the League tells the FCC to maintain existing ham allocations from 75.5 to 81 GHz to spur development of short-range high-speed data links. Automobile manufacturers differed on the issue of continued Amateur Radio use of the 76-77 GHz band. Ford Motor Company opposes continued use of the band by hams. General Motors says that vehicle radar systems would not be adversely affected by continued amateur use of the band. Japanese automakers don't want to use these frequencies at all. They say they prefer 60-61 GHz for these systems instead. Thanks, Newsline.

ARRL President Stafford has announced the makeup of the ARRL's WRC-99 Committee. This committee is charged with developing policy recommendations related to structural changes in international amateur radio regulations that are expected to be considered at the 1999 World Radio Conference. Members of the committee are K0TO (Chair), K4VX, WA2DHF, WA6WZO, K1ZZ, W7AGQ, K1GW, KC6ZEC, and K0PP.

More News

10-GHz Cumulative Contest Expanded March 18, 1996

The ARRL Awards Committee has voted unanimously to accept a Contest Advisory Committee recommendation to add the bands above 10 GHz to the ARRL 10-GHz Cumulative Contest. The purpose of this is to encourage use of the upper microwave bands. The 10-GHz cumulative run August 17-18 and September 21-22 in 1996. In the past there has been no division of entries into categories. Effective this year there will be two entry categories: "10 GHz only" and "10 GHz and above."

Scoring is based on distance points and QSO points. Distance points are gained one point for each km between stations for each successfully completed QSO. Count 100 QSO points for each different (unique) call sign worked per band. (Portable indicators added to a call sign are not considered as making the call sign unique.) Total score is the sum of distance points and QSO points. There are no multipliers.

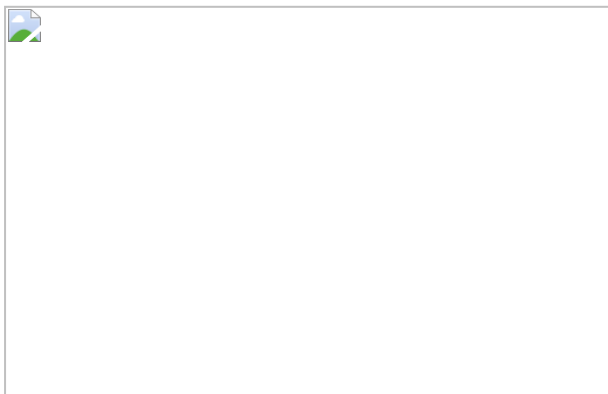
Details will be announced in June 1996 QST. For Further Information Contact: Billy Lunt, KR1R via Internet: contest@arrl.org or The American Radio Relay League 225 Main Street, Newington CT USA 06111 Telephone: 860-594-0200. Thanks to Jack N6XQ for info.

Happenings from Northern California

The name of the northern California Experimenters group is JEFFREY PAWLAN WA6KBL at e-mail jpawlan@pawlan.com ph (408) 371-0256. Nothing has been heard from Jeff since the January meeting. Other stuff from up north...Lars, AA6IW is up and running with his 24Ghz rig and has many QSO's with KD6LI...The Mt. Vaca beacon (CM88WJ) is burning in on Ron's bench (K6GZA)...Next is packaging and the install...more to follow...73.. Jimw6asl@aol.com Tue, 19 Mar 1996

Results of ARRL 1995 10 GHz Cumulative Contest From QST March 1996 page 99-100.

LISTED BY SCORE, TOP 30



CALL	SCORE	#QSO's	STNS	DX(KM)
WA6OWD	29513	101	24	499
VE3ONT++	25933	5	5	6464
WD4MUO/0	23713	171	12	259

N1BWT	15820	79	35	549
WB6CNI	15783	54	19	745
WA6CDR	15700	70	28	800
K6GZA	15627	53	19	748
WA6QYR	14610	55	26	919
KH6CP/1	14074	70	27	549
K2RIW	14072	51	26	420
AF1T	13821	88	39	367
N0UGY	13638	106	8	259
K1LPS	11943	59	27	486
W5VSI	11359	95	6	246
KB1VC	11308	55	34	313
W6HCC	11270	60	24	653
W6OYJ	11174	62	23	630
KB1PL	10756	77	34	367
N6IZW	10702	47	26	748
N0WPG	10430	91	6	194
XE2/N6XQ	9763	12	10	916
W6DXJ	9571	55	20	630
WB1FKF	9421	51	18	509
WA6PAZ	8795	46	25	727
N2LIV	8561	34	20	397
W1AIM	8529	59	28	313
WA5VJB	8480	8	8	7596
WA6EXV	8219	34	17	652
K1FWF	7915	41	23	486
AA1A	7621	34	15	295

Thanks - Ed, W6OYJ

San Bernardino Microwave Society is a technical amateur radio club affiliated with the ARRL having a membership of over 100 amateurs from Hawaii to the east coast. Dues are \$15 per year. The W6IFE newsletter is provided monthly to members. Your mail label indicates your call and when it is time to renew your dues. Dues can be sent to the treasurer as listed under the banner on the front page. If you have material you would like in the newsletter please sent it to Bill WA6QYR at 247 Rebel Road Ridgecrest, CA 93555, WA6QYR@WA6YBN.SOCA.CA.USA, bburns@ridgecrest.ca.us, or phone 619-375-8566.

